

## BOOLEAN PROCESSOR

### ABSTRACT OF THE DISCLOSURE

A processor including a Boolean logic unit, wherein the Boolean logic unit is operable for performing the short-circuit evaluation of Conjunctive Normal Form Boolean expressions/operations, a plurality of input/output interfaces, wherein the plurality of input/output interfaces are operable for receiving a plurality of compiled Boolean expressions/operations and transmitting a plurality of compiled results, and a plurality of registers. An associated processing method including starting an operation related to a Conjunctive Normal Form Boolean expression, wherein the Boolean expression comprises a conjunct, evaluating the conjunct, and selectively short-circuiting a portion of the Boolean expression.

CLTLIB01 672564 1